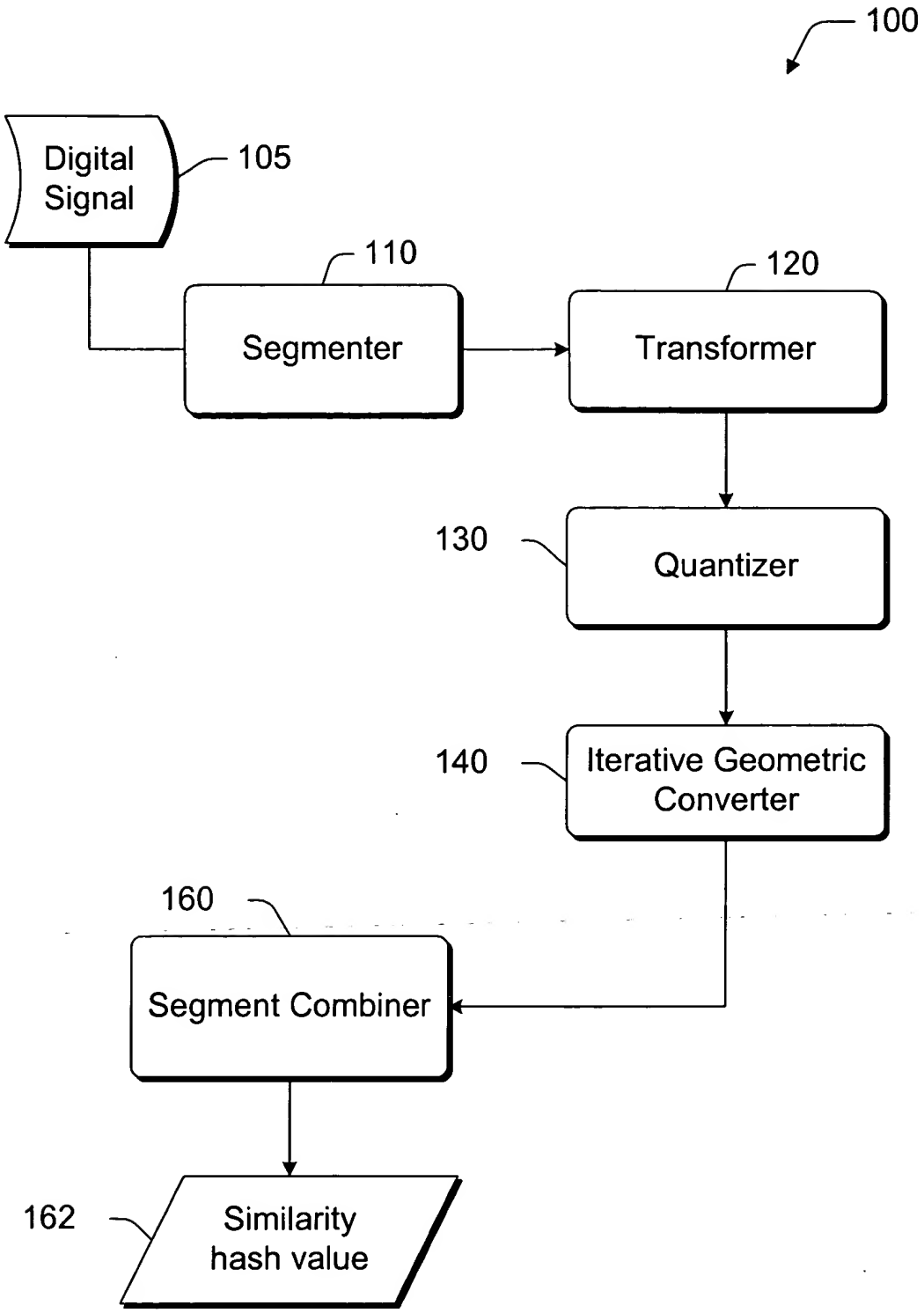
100
Digital Signal
105
110
Segmenter
120
Transformer
130
Quantizer
140
Iterative Geometric Converter
160
Segment Combiner
162
Similarity hash value

Fig. 1

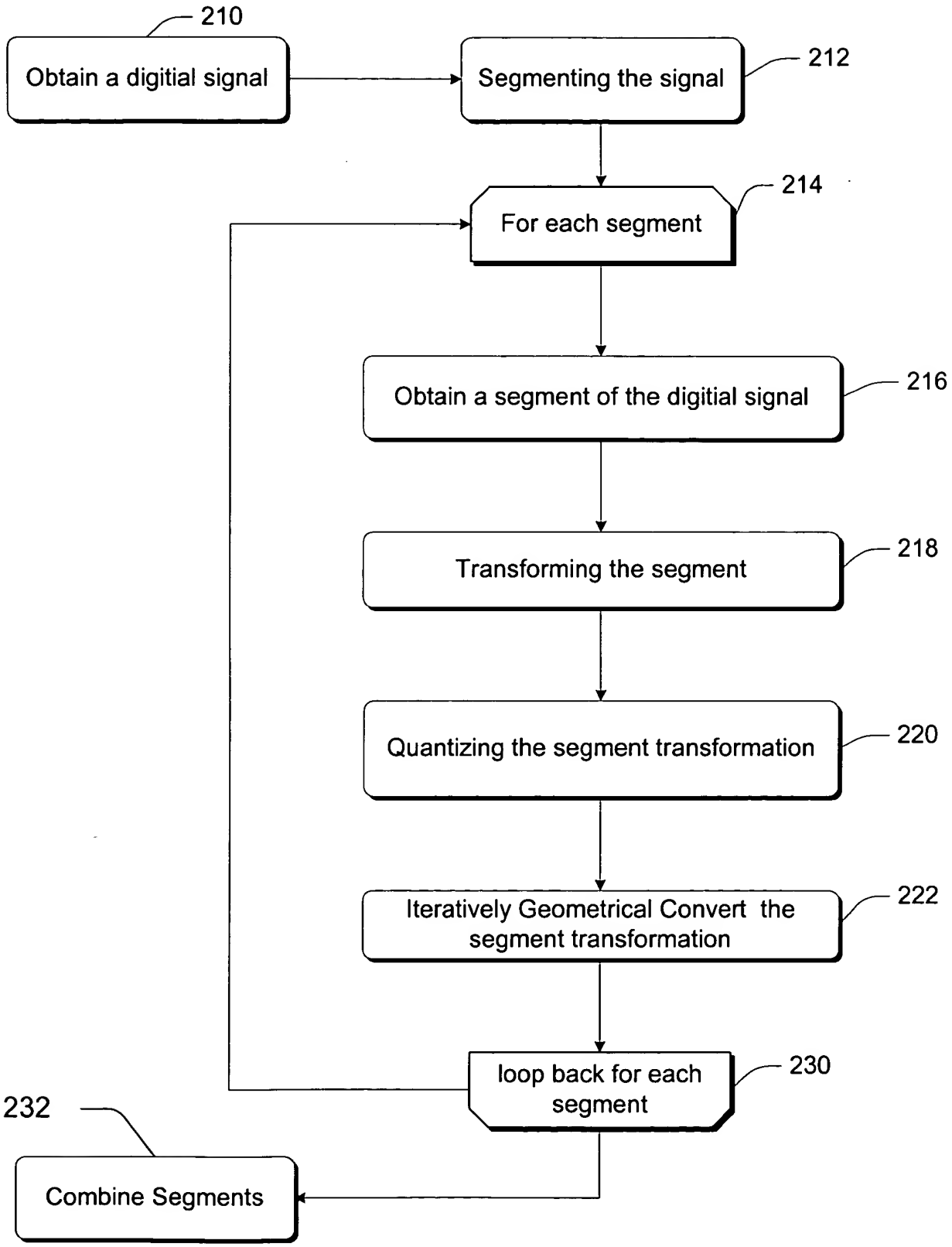
210
Obtain a digitial signal
Segmenting the signal
212
For each segment
214
Obtain a segment of the digitial signal
216
Transforming the segment
218
Quantizing the segment transformation
220
Iteratively Geometrical Convert the segment transformation
222
loop back for each segment
230
232
Combine Segments

Fig. 2

lee&hayes

Before iterative Geometric Region Growing (GRG)

After iterative GRG

Original

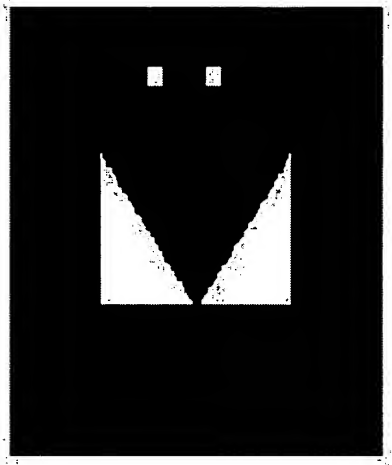

Fig. 3A

Fig. 3C

Noisy Original

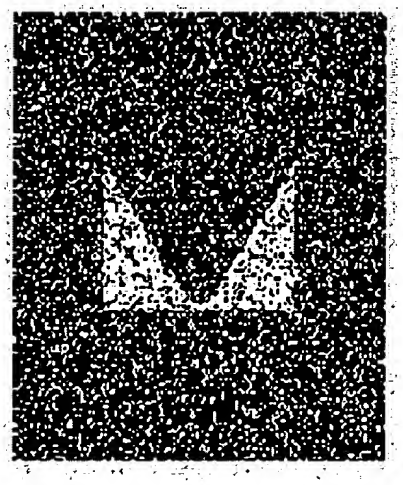

Fig. 3B

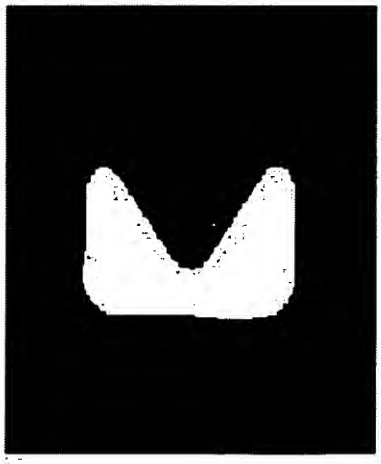

Fig. 3D

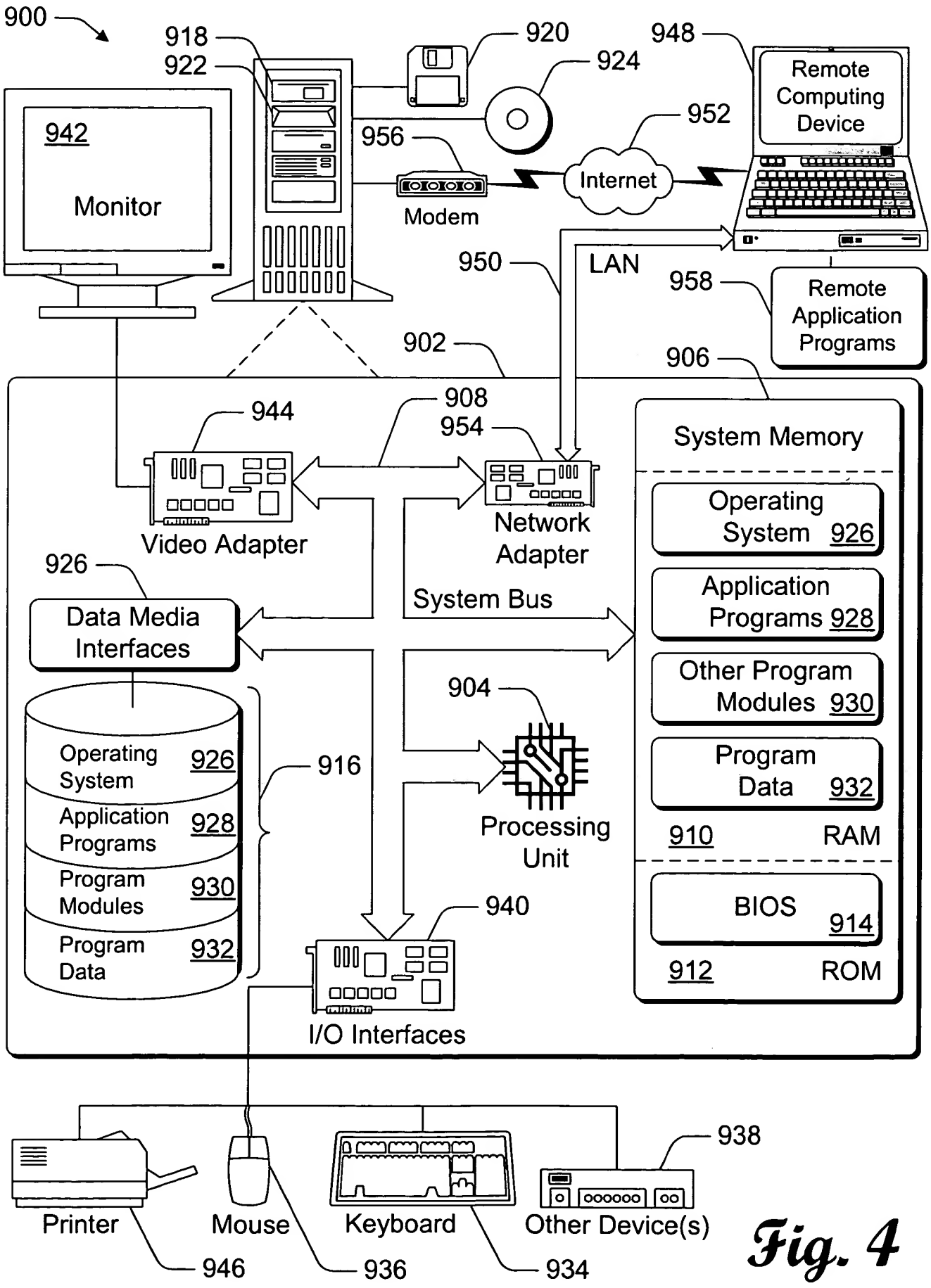
900
918
922
920
924
948
Remote Computing Device
942
Monitor
956
952
Internet
Modem
950
LAN
958
Remote Application Programs
902
906
944
908
954
System Memory
Operating System 926
Application Programs 928
Other Program Modules 930
Program Data 932
910
RAM
BIOS 914
912
ROM
Video Adapter
Network Adapter
926
Data Media Interfaces
System Bus
904
916
Operating System 926
Application Programs 928
Program Modules 930
Program Data 932
Processing Unit
940
I/O Interfaces
938
Printer
Mouse
Keyboard
Other Device(s)
946
936
934

Fig. 4